

Fig. 2 is a cross section through a turbine blade;

Fig. 3 is a partial sectional view of a thermal barrier coating system of the turbine blade of Fig. 2, the section is labeled III; and

Fig. 4 is a diagrammatic section through a coating installation for coating a turbine blade with thermal barrier coating.--

In the Claims:

Sub D1
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Claim 1 (amended). A method of cleaning a surface of an article having a metallic base body, the method which comprises:

generating a plasma with electrically positively charged ions, accelerating the ions towards the article, and bringing ions into contact with the base body for cleaning the base body;

directing an electron beam onto the base body; and

controlling an outgoing flow of electrons coming into contact with the base body by connecting the base body to a reference potential via a switch at a given switching frequency.

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Claim 4 (amended). A method of cleaning a surface of an article having a metallic base body, the method which comprises:

generating a plasma with electrically positively charged ions, accelerating the ions towards the article, and bringing ions into contact with the base body for cleaning the base body;

directing an electron beam onto the base body;

controlling an outgoing flow of electrons coming into contact with the base body by connecting the base body to a reference potential via a switch at a given switching frequency by adjusting the switching frequency in a range from a few Hz to a few MHz.

Claim 5 (amended). A method of cleaning a surface of an article having a metallic base body, the method which comprises:

generating a plasma with electrically positively charged ions, accelerating the ions towards the article, and bringing ions into contact with the base body for cleaning the base body;

directing an electron beam onto the base body; and

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~~controlling an outgoing flux of electrons by adjusting the
switching frequency to substantially 50 kHz.~~

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Claim 6 (amended). The method according to claim 1, which
comprises controlling an outgoing flux of electrons coming
into contact with the base body by connecting the base body to
a reference potential via a switch at a given switching
frequency by adjusting the switching frequency to
substantially 27 MHz.

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Claim 14 (amended). A method of cleaning a surface of an
article having a metallic base body, the method which
comprises:

generating a plasma with electrically positively charged ions,
accelerating the ions towards the article, and bringing ions
into contact with the base body for cleaning the base body;

directing an electron beam onto the base body; and

controlling an outgoing flow of electrons coming into contact
with the base body by connecting the base body to a reference
potential via a switch at a given switching frequency; and

heating the article prior to cleaning.

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